

The First Announcement and Call for Papers

The 9th International Conference on Leading Edge Manufacturing in 21st Century (LEM21)

November 13-17, 2017, Hiroshima, JAPAN

**Venue: International Conference Center Hiroshima
in Peace Memorial Park**

Sponsored by : The Japan Society of Mechanical Engineers (JSME)

Organized by : Manufacturing and Machine Tool Division of JSME
Manufacturing Systems Division of JSME

Cooperation by : Hiroshima Novel Manufacturing Research Center,
JSME Chugoku-Shikoku Branch



Topics and fields :

- Advances in Cutting and Abrasive Machining Technologies (New Tools and Tool Materials, Machining of Advanced Materials, High Speed Machining, etc.)
- Advances in Physical and Chemical Processing (Laser Processing, Electrical Machining, Coating Technologies, Electron / Ion Beam Processing etc.)
- Ultra Precision Machining and Fabrication
- Nano / Micro Manufacturing and Measurement
- Environmentally Conscious Manufacturing
- Rapid Prototyping and Additive Manufacturing
- Die and Mold Manufacturing Technologies
- Advanced Machine Tools and Machine Elements (Multi-function Machine Tools, Multi-axis Control, Intelligent Machine Tools, CAM, Monitoring, etc.)
- Ultra Precision Positioning, Control and Metrology
- Micro Machines, Systems and Intelligent

Instruments

- Digital Design and Manufacturing (Precise and Fast CAE Method, Visualization Technology, Physical Manufacturing Simulation, etc.)
- Evolutions Based on System Engineering for Next-generation Manufacturing Systems (Scheduling, CAPP, Life Cycle Assessment, etc.)
- Other Manufacturing-related Technologies

Abstract submission :

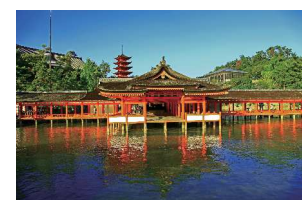
An abstract of about 400 words in English in one page of A4 size is required for each paper. Please download the abstract submission form (in Microsoft Excel format) from the conference website. Fill it out and submit it by e-mail to secretariat.

Conference web site :

<http://www.jsme.or.jp/mmt/lem21Hiroshima/>

Important dates :

Deadline of paper application with abstract :	March 31, 2017
Notification of tentative acceptance based on abstract :	April 30, 2017
Deadline of camera-ready manuscript submission :	June 15, 2017
Notification of paper acceptance :	July 15, 2017
Deadline of final camera-ready manuscript :	August 15, 2017



Conference Chairs

General Chair :

Keiji Yamada, Professor, Hiroshima University

Conference Co-chairs :

Shintaro Kitade, General Manager, IHI Corporation

Takashi Matsumura, Professor, Tokyo Denki University

Akira Okada, Professor, Okayama University

Program Chairs :

Tohru Ishida, Professor, Tokushima University

Kazuhito Ohashi, Professor, Okayama University

Tadanori Sugino, Professor, National Institute of Technology, Oshima College

Secretariat :

Ryutaro Tanaka, Assoc. Professor, Hiroshima University

Katsuhiko Sekiya, Assist. Professor, Hiroshima University

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Welcome to Hiroshima :

We are pleased to inform you that the 9th International Conference on Leading Edge Manufacturing in 21st Century (LEM21) will be held in Hiroshima, the "City of Peace." This conference has been continuously held every two years, and it has been providing opportunities for researchers and engineers to exchange new ideas and to establish relations for collaboration. The next LEM21 will be fruitful experience for participants from all over the world.

Organized sessions and Organizers :

No.	Session title	Organizers
(1)	Advanced machine tool	K. SHIRASE, Y. MORIMOTO, A. IEKI
(2)	Evaluation of machine tool performance	Y. IHARA, S. IBARAKI, A. SAITO
(3)	Multi-axis control and Multi-tasking machining	K. MORISHIGE, J. KANEKO
(4)	Mechatronics and control technology	A. MATSUBARA, T. SHINSHI, R. SATO
(5)	Advanced machining technologies	H. SASAHARA, H. USUKI, H. KATO, R. TANAKA
(6)	Analytical advancement of machining process	T. MATSUMURA, Y. MIZUGAKI, H. NARITA, N. SUZUKI
(7)	Ultra-precision machining	H. SUZUKI, K. OKUDA, J. YAN, O. ONISHI
(8)	Grinding technology	K. OHASHI, H. S. LEE, T. YAMADA, T. KITAJIMA, M. OTA, Y. ICHIDA, A. YUI
(9)	New developments in abrasive finishing technology	T. ENOMOTO, H. YAMAGUCHI, Y. ZOU, K. YOSHITOMI
(10)	Electrical machining	A. OKADA, S. HAYAKAWA, T. ISHIDA
(11)	Laser processing	Y. OKAMOTO, H. HIDAI, T. FURUMOTO
(12)	M4 processes (micro/meso mechanical manufacturing and micro-manufacturing for science)	T. KURIYAGAWA, N. MORITA, L. ZHOU, M. MIZUTANI, J. TANIGUCHI, A. KANEKO
(13)	Nano precision Elid-grinding	H. OHMORI, N. ITOH, W. LIN
(14)	Nano/Micro measurement and intelligent instruments	S. TAKAHASHI, Y. TAKAYA, W. GAO, K. KAMIYA, H. SHIMIZU, T. HAYASHI, S. MORITA, Y. MIZUTANI
(15)	Environmentally conscious machining	F. ITOIGAWA, K. SAKAI, Y. KONDO
(16)	Monitoring and control of machining process	E. KONDO, Y. KAKINUMA, A. HASE
(17)	Rapid prototyping technologies and additive manufacturing	H. NARAHARA, T. NIINO
(18)	Digital design and digital manufacturing (CAD/CAM)	H. AOYAMA, F. TANAKA, K. TERAMOTO
(19)	Nano/Micro machining	K. OGAWA, M. NOMURA, N. TAKANO
(20)	Non-traditional machining	Y. WU, N. YOSHIHARA, H. NISHIDA, M. JIN, H. ISOBE
(21)	Surface and tribology	N. MORONUKI, T. YAZAWA, N. UMEHARA, H. USAMI
(22)	Machine and mechanical elements	T. HIROGAKI, H. SAKAMOTO, M. KOMORI, H. YOSHIOKA, M. YOSHINO, N. SUGITA
(23)	Advanced manufacturing technologies	T. EGUCHI, Y. TANIMIZU, T. SAKAGUCHI, E. MORINAGA
(24)	Manufacturing systems, supply chain and scheduling	

Conference registration fee :

Regular :

Early registration (before August 15)	
JSME member	50,000 JPY
non-member	60,000 JPY

Late registration	
JSME member	60,000 JPY
non-member	65,000 JPY

Student :

JSME student member	25,000 JPY
non-member	35,000 JPY

The registration fee includes one copy of the conference proceedings and the conference banquet. For multiple presentation by the same participant, 10,000 JPY is charged per one additional presentation. Additional copy of the conference proceedings is 10,000 JPY for JSME members (15,000 JPY for non-members).